

Title (en)
ELECTROMAGNETIC CONTROLLED FUEL INJECTOR

Title (de)
Elektromagnetisches Einspritzventil

Title (fr)
Injecteur de carburant à commande électromagnétique

Publication
EP 1696117 B1 20110202 (EN)

Application
EP 05113078 A 20051229

Priority
JP 2005054676 A 20050228

Abstract (en)
[origin: EP1696117A1] An electromagnetic controlled fuel injector is provided with which it becomes possible to quicken closing response of the poppet valve (1) at the injection beginning in order to improve operation stability at low load operation of an engine and to increase the opening lift of the poppet valve to secure enough poppet valve seat passage area in order to sharpen injection cutoff at the injection end and output and fuel consumption performance of the engine can be improved. The injector is provided with an electromagnetic opening/closing valve device composed such that a command piston device (101) is provided at an end side of the poppet valve opposite to the solenoid device (6), the command piston device having a command piston (10) capable of being contacted with the end face of the end side of the poppet valve opposite to the solenoid device so that the poppet valve moves in conjunction with the move of the command piston to increase valve seat passage (15) area for spilling the high pressure fuel in the plunger room (8) when the solenoid device is deexcited to allow said poppet valve to be opened for spilling the high pressure fuel.

IPC 8 full level
F02M 57/02 (2006.01); **F02M 59/36** (2006.01); **F02M 59/46** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)
F02M 47/027 (2013.01 - EP US); **F02M 57/02** (2013.01 - EP US); **F02M 59/368** (2013.01 - EP US); **F02M 63/0015** (2013.01 - EP US);
F02M 63/004 (2013.01 - EP US)

Cited by
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AT DE FR GB

DOCDB simple family (publication)
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